BRIDGES DAY 3

BUILDING A BRIDGE

1.	What type of bridge will you be designing?
2.	What materials do you plan to use?
3.	Describe the physical characteristics of each material you intend to use, and why you selected it:
4.	Sketch a design of your bridge. Label each part of the bridge with the material you plan to use and show the compression and tension forces with arrows.
5.	Build the bridge.

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- **5.** Write a prediction about how much weight you think your bridge can hold.
- **7.** Using coins (or another weighted object), test your bridge to see how much weight your bridge can hold before collapsing. Record your results. Assume one quarter weighs 0.2 ounces, one dime weighs 0.08 ounces, and one nickel weighs 0.18 ounces if you do not have a scale available.

- **8.** Was your prediction correct or incorrect? Explain.
- **9.** If you could change something about the overall design or materials used for your bridge, what would you change? Explain.